Friday, March 22, 2024 4:40 PM

Dalsie funccie na dnes:

$$y = ln(x - \sqrt{x^2 - 1})$$
 $y = \frac{x}{\sqrt{a^2 - x^2}}$
 $y = ln(\frac{1+x}{1-x})$

$$y = \ln(x - \sqrt{x^2 - 1})$$

$$x = \sqrt{x^2 - 1}$$

$$\times$$
 $f(*)$

1 0

2 $\ln(2-\sqrt{3}) < 0$

10 $\ln(10-\sqrt{99}) < 0$

$$x - \sqrt{x^2 - 1} = x - x \sqrt{1 - \frac{1}{x^2}}$$

$$= x - x \left(\frac{1}{1 - x} - \frac{1}{2x^2} \right) = \frac{1}{2x}$$

$$\ln \left(\frac{1}{2x} \right) = -\ln \left(2x \right) = -\ln 2 - \ln x$$

 $y = \frac{3 \times 3 - 1}{3 \times 2 - 5}$

$$f'(x) = \left[m(x - \sqrt{x^2 - 1}) \right]' = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2 - 1}} \cdot \left(1 - \frac{1}{2\sqrt{x^2 - 1}} \cdot 2 \right) = \frac{1}{x - \sqrt{x^2$$

 $\times - \sqrt{\chi^2 - 1}$ $\times \sqrt{\chi^2 - 1}$ $-\frac{1}{x-\sqrt{x^2-1}}$ $\sqrt{\frac{1}{x^2-1}}$ $\sqrt{\frac{1}{x^2-1}}$ $\sqrt{\frac{1}{x^2-1}}$ $\sqrt{\frac{1}{x^2-1}}$ $f'(x) = -\frac{1}{\sqrt{x^2}}$ $x \rightarrow t'(x) \sim \frac{1}{x}$ $f'(x) < 0 \quad x \ge 1$ $P_{2} = \frac{x}{\sqrt{a^{2}-x^{2}}} = \frac{x}{\sqrt{1-(x)^{2}}}$ $\mathcal{J}(f) = \alpha^2 - x^2 > 0$ $= \alpha < x < \alpha$ $\lim_{x \to a} \frac{x}{\sqrt{a^2 - x^2}} = \lim_{x \to a} \frac{x}{\sqrt{a + x}} = \lim_{x \to a} \frac{x}{\sqrt{a + x}}$ $= \int_{2}^{a} \lim_{x \to a} \int_{x-x}^{x} dx - x.$ Podobne.

Erik 2024-03-22 Strana

$$\frac{1}{2} \ln \frac{3/2}{3/2} = \ln 3$$

$$-\frac{1}{2} \ln \frac{1/2}{3/2} = \ln \frac{3}{3} = -\ln 3$$

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$$\frac{1}{2} \ln \frac{1/2}{1+x} = -\ln \frac{1}{1+x} = -4(x)$$

$$\frac{1}{2} \ln \frac{1}{1+x} + \frac{1}{2} \ln \frac{1}{1+x} = -4(x)$$

$$\frac{1}{2} \ln \frac{1}{1+x} + \frac{1}{2} \ln \frac{1}{1+x}$$

$$\frac{1}{2} \ln \frac{1}{1+x} \ln \frac{1}{1+x} + \frac{1}{2} \ln \frac{1}{1+x} + \frac{1}{2} \ln \frac{1}{1+x}$$

$$\frac{1}{2} \ln \frac{1}{1+x} \ln \frac{1}{1+x} + \frac{1}{2} \ln \frac{1}{1+x}$$

$$\frac{1}{2} \ln \frac{1}{1+x} \ln \frac{1}{1+x}$$

$$\frac{1}{2} \ln \frac{1}{1+x}$$